

**ABSTRACT OF THE DISCLOSURE**

The subject invention relates to viruses that are able to replicate and thereby kill  
5 neoplastic cells with a deficiency in the IFN-mediated antiviral response, and their use  
in treating neoplastic disease including cancer and large tumors. RNA and DNA viruses  
are useful in this regard. The invention also relates to methods for the selection, design,  
purification and use of such viruses for cancer therapy.